

Tomoki Nakamura

List of Publications by Year in descending order

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36
papers

2,508
citations

394421

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docs citations

37
times ranked

1470
citing authors

#	ARTICLE	IF	CITATIONS
1	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryugu—A spinning top-shaped rubble pile. <i>Science</i> , 2019, 364, 268-272.	12.6	410
2	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252.	12.6	313
3	The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. <i>Science</i> , 2019, 364, 272-275.	12.6	262
4	Three-Dimensional Structure of Hayabusa Samples: Origin and Evolution of Itokawa Regolith. <i>Science</i> , 2011, 333, 1125-1128.	12.6	249
5	Post-hydration thermal metamorphism of carbonaceous chondrites. <i>Journal of Mineralogical and Petrological Sciences</i> , 2005, 100, 260-272.	0.9	177
6	Sample collection from asteroid (162173) Ryugu by Hayabusa2: Implications for surface evolution. <i>Science</i> , 2020, 368, 654-659.	12.6	158
7	Petrographic, chemical and spectroscopic evidence for thermal metamorphism in carbonaceous chondrites I: CI and CM chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 284-306.	3.9	142
8	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
9	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
10	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. <i>Science</i> , 2022, 375, 1011-1016.	12.6	78
11	Pulse-laser irradiation experiments of Murchison CM2 chondrite for reproducing space weathering on C-type asteroids. <i>Icarus</i> , 2015, 254, 135-143.	2.5	72
12	NIRS3: The Near Infrared Spectrometer on Hayabusa2. <i>Space Science Reviews</i> , 2017, 208, 317-337.	8.1	60
13	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	51
14	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47
15	Collisional history of Ryugu's parent body from bright surface boulders. <i>Nature Astronomy</i> , 2021, 5, 39-45.	10.1	42
16	Space Weathering Simulation with Low-energy Laser Irradiation of Murchison CM Chondrite for Reproducing Micrometeoroid Bombardments on C-type Asteroids. <i>Astrophysical Journal Letters</i> , 2020, 890, L23.	8.3	27
17	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837.	12.8	23
18	Characterizing irradiated surfaces using IR spectroscopy. <i>Icarus</i> , 2020, 345, 113722.	2.5	22

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19	Science operation plan of Phobos and Deimos from the MMX spacecraft. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	22
20	Hayabusa2 Landing Site Selection: Surface Topography of Ryugu and Touchdown Safety. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
21	Multivariable statistical analysis of spectrophotometry and spectra of (162173) Ryugu as observed by JAXA Hayabusa2 mission. <i>Astronomy and Astrophysics</i> , 2019, 629, A13.	5.1	15
22	Surface environment of Phobos and Phobos simulant UTPS. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	15
23	Exposure Experiments of Amorphous Silicates and Organics to Cometary Ice and Vapor Analogs. <i>Astrophysical Journal</i> , 2019, 881, 27.	4.5	9
24	Characterization of the Ryugu surface by means of the variability of the near-infrared spectral slope in NIRS3 data. <i>Icarus</i> , 2020, 351, 113959.	2.5	9
25	Combining IR and X-ray microtomography data sets: Application to Itokawa particles and to Paris meteorite. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1645-1664.	1.6	8
26	Spectral characterization of the craters of Ryugu as observed by the NIRS3 instrument on-board Hayabusa2. <i>Icarus</i> , 2021, 357, 114253.	2.5	7
27	Spectral and mineralogical alteration process of naturally-heated CM and CY chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 316, 150-167.	3.9	6
28	High-resolution observations of bright boulders on asteroid Ryugu: 2. Spectral properties. <i>Icarus</i> , 2021, 369, 114591.	2.5	5
29	An evaluation method of reflectance spectra to be obtained by Hayabusa2 Near-Infrared Spectrometer (NIRS3) based on laboratory measurements of carbonaceous chondrites. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	4
30	UV-visible-infrared spectral survey of Antarctic carbonaceous chondrite chips. <i>Polar Science</i> , 2021, 29, 100723.	1.2	4
31	Anaerobic Microscopic Analysis of Ferrous Saponite and Its Sensitivity to Oxidation by Earth's Air: Lessons Learned for Analysis of Returned Samples from Mars and Carbonaceous Asteroids. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1244.	2.0	4
32	Multiscale correlated analysis of the Aguas Zarcas CM chondrite. <i>Meteoritics and Planetary Science</i> , 2022, 57, 965-988.	1.6	4
33	Site selection for the Hayabusa2 artificial cratering and subsurface material sampling on Ryugu. <i>Planetary and Space Science</i> , 2022, 219, 105519.	1.7	4
34	Sr distribution as proxy for Ca distribution at depth in SXRF analysis of mm-sized carbonaceous chondrites: Implications for asteroid sample return missions. <i>Meteoritics and Planetary Science</i> , 2022, 57, 817-829.	1.6	3
35	High-resolution observations of bright boulders on asteroid Ryugu: 1. Size frequency distribution and morphology. <i>Icarus</i> , 2021, 369, 114529.	2.5	2
36	NIRS3 spectral analysis of the artificial Omusubi-Kororin crater on Ryugu. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 6173-6182.	4.4	1